

From the INTERNATIONAL SEARCHING AUTHORITY	PCT					
To: RIDOUT & MAYBEE LLP One Queen Street East Suite 2400 Toronto, Ontario M5C 3B1 CANADA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION					
	(PCT Rule 44.1)					
	Date of mailing (day/month/year) 03/11/2004					
Applicant's or agent's file reference	FOR FURTHER ACTION					
42430-01090	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/CA2004/001055	International filing date (day/month/year)					
Applicant	21/07/2004					
MOLD-MASTERS LIMITED						
The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.						
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.						
Name and mailing address of the International Searching Authority	Authorized officer					

Kenneth Ross

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016



These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)



The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220	
42430-01090	ACTION	as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)	
PCT/CA2004/001055	21/07/2004		29/08/2003	
Applicant			,	
MOLD-MASTERS LIMITED	· · · · · · · · · · · · · · · · · · ·			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Seansmitted to the International Burea	arching Auth	nority and is transmitted to the applicant	
This International Search Report consists	of a total ofsl	ieets.		
X It is also accompanied by	a copy of each prior art document	cited in this	report.	
Basis of the report With regard to the language, the	international search was carried o	it on the bas	sis of the international application in the	
	ess otherwise indicated under this			
The international this Authority (Ru		s of a transl	ation of the international application furnished to	
b. With regard to any nucle	otide and/or amino acid sequenc	e disclosed	in the international application, see Box No. I.	
2. Certain claims were fou	nd unsearchable (See Box II).			
3. Unity of invention is lac	king (see Box III).	,		
4. With regard to the title,	•		•	
X the text is approved as so	ibmitted by the applicant.			
the text has been established	shed by this Authority to read as fol	ows:		
			·	
			**	
	•	•		
,.				
5. With regard to the abstract,				
	ubmitted by the applicant.		•	
		this Author	ity as it appears in Box No. IV. The applicant	
may, within one month fr	om the date of mailing of this intern	ational sea	rch report, submit comments to this Authority.	
6. With regards to the drawings,			·	
a. the figure of the drawings to be	published with the abstract is Figur	e No. <u>1</u>		
X as suggested by	the applicant.		•	
as selected by the	is Authority, because the applicant	failed to su	ggest a figure.	
	is Authority, because this figure be	tter charact	erizes the invention.	
b none of the figures is to l	pe published with the abstract.			

INTERNATIONAL SEARCH REPORT



ernational Application No TCT/CA2004/001055

IPC 7	B29C45/28					
According t	o International Patent Classification (IPC) or to both national classific	cation and IPC	•			
B. FIELDS	SEARCHED					
Minimum de IPC 7	ocumentation searched (classification system followed by classification B29C	tion symbols)				
•••	,					
Documenta	tion searched other than minimum documentation to the extent that	such decuments are included in the fields are				
	and south the their manners accumulated to the extent that	such documents are included in the helps sea	rched			
Electronic d	lata base consulted during the international search (name of data be	and and where practical expreh terms used				
	ternal, PAJ, WPI Data	ase and, where practical, search terms used)				
	cernar, inc, will baca					
	·		·			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		· · · · · · · · · · · · · · · · · · ·			
Category °	Citation of document, with indication, where appropriate, of the re	levant nassanes	Relevant to claim No.			
		nevant passages	Helevani to claim 190.			
Х	US 2002/086074 A1 (LAVALLEE GERA	LD A)	1,2,			
	4 July 2002 (2002-07-04)		8-14,			
Υ	figures 3-5		17-19 2 5-7			
ļ *.			3,5-7, 16,20			
	paragraph '0018!		,-			
Υ	PATENT ABSTRACTS OF JAPAN		3,5-7,			
	vol. 0041, no. 02 (M-022),	·	16,20			
22 July 1980 (1980-07-22) -& JP 55 061438 A (HOKOKU JUSHI KOGYO KK),						
	9 May 1980 (1980-05-09)	, and the second				
	abstract					
		·	•			
		1				
	ner documents are listed in the continuation of box C.	χ Patent family members are listed in	annex.			
	tegories of cited documents :	"T" later document published after the interm	ational filing date			
consid	ent defining the general state of the art which is not lered to be of particular relevance	or priority date and not in conflict with the cited to understand the principle or theo invention	e application but ry underlying the			
tiling d	·	"X" document of particular relevance; the cla	imed invention			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone						
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or						
other means ments, such combination being obvious to a person skilled "P" document published prior to the international filing date but in the art.						
"&" document member of the same patent family						
Date of the	Date of the actual completion of the international search Date of mailing of the international search report					
	9 October 2004	03/11/2004				
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer				
	NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tv 31 651 epo pl					
Fax: (+31-70) 340-3016 Bibollet-Ruche, D						

INTERNATIONAL SEARCH REPORT

T/CA2004/001055

	ent document in search report		Publication date	Patent family member(s)		Publication date	
US	2002086074	A1	04-07-2002	NONE			
JP	55061438	Α	09-05-1980	NONE			



From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT			
					- *		
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			·	(F	PCT Rule 43bis.1)		
		•	•	Date of mailing	· ·		
				(day/month/year) see form PCT/ISA/210 (second sheet)			
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below			
	national application T/CA2004/00105		International filing date (c 21.07.2004	day/month/year)	Priority date (day/month/year) 29.08.2003		
	national Patent Clas 3C45/28	sification (IPC) or	both national classification	and IPC			
1	icant LD-MASTERS L	IMITED	· · · · · · · · · · · · · · · · · · ·		.'		
 [
1.	This opinion co	ontains indication	ons relating to the follo	owing items:			
	☑ Box No. I	Basis of the op	inion				
	☑ Box No. II	Priority					
·	☐ Box No. III	Non-establishn	nent of opinion with rega	rd to novelty, inventive	e step and industrial applicability		
	☐ Box No. IV	Lack of unity of					
	⊠ Box No. V	Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	☐ Box No. VI						
	Box No. VII	Box No. VII Certain defects in the international application					
	Box No. VIII Certain observations on the international application						
2.	FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further option	ns, see Form PC	T/ISA/220.				
3.	For further details, see notes to Form PCT/ISA/220.						

Name and mailing address of the ISA:



European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Authorized Officer

Bibollet-Ruche, D

Telephone No. +31 70 340-1027



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/001055

	Box No. I Basis of the opinion
1.	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.
	☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material:
	☐ a sequence listing
	☐ table(s) related to the sequence listing
	b. format of material:
	☐ in written format
	☐ in computer readable form
	c. time of filing/furnishing:
•	□ contained in the international application as filed.
	☐ filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CA2004/001055

		**	· .			
	Box No. II Priority					
1.		not bee	en furnished	d:		
	□ copy of the earlier ap	plicatio	n whose pr	iority has been claim	ed (Rule 43 <i>bis</i> .1 and 66.7(a)).	
	☐ translation of the ear	lier app	lication who	ose priority has been	claimed (Rule 43bis.1 and 66.7	(b)).
	Consequently it has not been nevertheless been established	n possik ed on th	ole to consi ne assumpti	der the validity of the on that the relevant o	priority claim. This opinion has date is the claimed priority date.	
2.	☐ This opinion has been estab has been found invalid (Rule filing date indicated above is	es 43 <i>bis</i>	1.1 and 64.1). Thus for the purpo	d due to the fact that the priority uses of this opinion, the internation	claim onal
3.	Additional observations, if necess	sary:			•	•
		•	•			
	Box No. V Reasoned stateme	ent unc	ler Rule 43	bis.1(a)(i) with rega	rd to novelty, inventive step o	or .
	industrial applicability; citation	is and e	explanatio	ns supporting such	statement	
1.	Statement					
	Novelty (N)	Yes:	Claims	3-7,16,20		
		No:	Claims	1,2,8-14,17-19		
	Inventive step (IS)	Yes:	Claims	4,15		
	inventive step (io)	No:	Claims	1-3,5-14,16-20	•	
			O.a.iiio			
	Industrial applicability (IA)	Yes:	Claims	1-20		
	•	No:	Claims	•		
	•				·	
2.	Citations and explanations					
	see separate sheet			•		
						'
	Box No. VII Certain defects in	the in	ternational	application		
Th	ne following defects in the form or o				have been noted:	
	see separate sheet				•	
	<u> </u>		1			
	Box No. VIII Certain observat	ions or	the intern	ational application		

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

International application No.

PCT/CA2004/001055

Regarding the points V, VII and VIII.

1. Reference is made to the following documents:

D1: US-A-2002086074 D2: JP-A-55061438

2. In respect of the requirements of Article 6 PCT the following is observed:

Although claims 1 and 17 have been drafted as separate independent apparatus claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

3.1 Document D1 discloses an injection molding apparatus comprising; a nozzle (28) having a nozzle channel;

a mold cavity (6) in communication with the nozzle channel of the nozzle for receiving a melt stream of moldable material from the nozzle channel through a mold gate; and

a valve pin (30) axially movable through the nozzle channel of the nozzle between a first retracted position in which the valve pin closes the mold gate to block melt flow between the nozzle channel and the mold cavity (cf. fig. 5), an extended position in which an end portion of the valve pin extends through the mold gate and into the mold cavity (cf. fig. 3), and a third retracted position in which the end portion of the nozzle pin is withdrawn from the mold cavity into the nozzle and spaced apart from the mold gate thereby opening the mold gate (cf. fig. 4), the end portion of the valve pin defining a melt flow path (cf. fig. 3) on an outer surface thereof that extends through the mold gate when the valve pin is in the extended position for transmitting the melt stream from the nozzle channel to the mold cavity when the valve pin is in the extended position, cf. paragraph 0018.

Therefore the subject-matter of claim 1 lacks novelty (Article 33(2) PCT).

3.2 Document D1 discloses a method of injecting a melt stream of moldable material

nozzle:

International application No.

PCT/CA2004/001055

into a mold cavity of an injection molding apparatus having a nozzle with a nozzle channel in communication with the mold cavity through a mold gate, and a valve pin mounted for axial movement through the nozzle channel relative to the mold gate between at least a first position (cf. fig. 5) in which the valve pin closes the mold gate, a second position (cf. fig. 3) in which the valve pin directs a melt stream through the mold gate and into the mold cavity in a first direction, and a third position (cf. fig. 4) in which the melt stream is directed through the mold gate in a second direction, the method including: delivering a melt stream of moldable material into the nozzle channel of the

moving the valve pin to the second position and directing the melt stream through the mold gate and into the mold cavity in the first direction; moving the valve pin to the third position and directing the melt stream

through the mold gate and into the mold cavity in the second direction; and moving the valve pin the first position to close the mold gate, cf. paragraph 0018.

Therefore the subject-matter of claim 8 lacks novelty (Article 33(2) PCT).

- 3.3 The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 17, which therefore is also considered not new.
- 4.1 The additional feature of claim 2 is also known from D1, cf. figure 3.
- 4.2 The additional features of claims 3, 5, 6 and 7 appear to be a matter of normal design procedure, see for instance document D2, cf. figures 9, 10,11. Their inclusion in the valve pin described in document D1 would therefore be an obvious design possibility for the skilled person.
- 4.3 The combination of the features of dependent claim 4 does not appear to be known from the available prior art documents. If the applicant can see an objective underlying problem which is disclosed in the application documents as originally filed:or is in reason direct derivable therefrom and which is solved by the additional features of claim 4, then claim 4 could involve an inventive step in the sense of Article 33(3) PCT.
- 4.4 The additional features of claims 9 to 14 are also known from D1, cf. figures 3, 4,

International application No.

PCT/CA2004/001055

5 and paragraph 0018.

- 4.5 The combination of the features of dependent claim 15 does not appear to be known from the available prior art documents. If the applicant can see an objective underlying problem which is disclosed in the application documents as originally filed or is in reason direct derivable therefrom and which is solved by the additional features of claim 15, then claim 15 could involve an inventive step in the sense of Article 33(3) PCT.
- 4.6 The additional feature of claim 16 appears to be a matter of normal design procedure, see for instance document D2, cf. figures 9, 10. Its inclusion in the valve pin described in document D1 would therefore be an obvious design possibility for the skilled person.
- 4.7 Dependent claims 18 to 20 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty or inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.
- 5. The following should be noted too:
- 5.1 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 and D2 is not mentioned in the description, nor are these documents identified therein.
- 5.2 The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
- 5.3 The vague and imprecise statement in the description in paragraph 0072 implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity when used to interpret them (PCT Guidelines 5.30).
- 5.4 Independent claims are not in the two-part form in accordance with Rule 6.3(b) PCT.

International application No.

PCT/CA2004/001055

5.5 It appears to be a typing mistake in the expression "claim 12" used in claim 20, in that this claim refers to the apparatus as claimed in claim 12, whereas claim 12 is a method claim.